

BARANOV, L.A.; GORBATOV, V.I.; YEVREINOV, D.V.; YERMAKOV, Ya.I.;
PITERSKOV, N.I.; RYB'TSEV, A.M.; RYAZANTSEV, K.G.; TOROPOV, A.S.;
TSEYTLIN, G.I.; YAROSHEV, D.M.; TRUBIN, V.A., glavnyy red.;
SOSHIN, A.V., zam.glavnogo red.; RAKITIN, G.A., red.; GRINEVICH,
G.B., red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV,
B.A., red.; ZIMIN, P.A., red.; TABUNINA, M.A., red.izd-va;
OSENKO, L.M., tekhn.red.

[Manual on accident prevention and industrial sanitation during
construction and repair operations] Spravochnoe posobie po tekhnike
bezopasnosti i promsanitarii pri proizvodstve stroitel'no-montazh-
nykh rabot. Pod red. G.A.Rakitina. Moskva, Gos.izd-vo lit-ry po
stroit., arkhitekt. i stroit.materialam, 1961. 359 p.

(MIRA 14:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organi-
zatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
(Construction industry--Hygienic aspects)

BOYKO, G.Ye.; KLIMOVSKAYA, L.K.; RYL'TSEV, Ye.V.; TURKEVICH, V.V.; YATSENKO, Ye.F.

Infrared absorption spectra of the higher liquid hydrocarbons of
Carpathian ozocerites. Trudy UkrNIGRI no.5:378-381 '63.

(MIRA 18:3)

DENISOV, G.I.; EYENBERG, Ye.V.; ARLOFF, V.M.

Appearance of dipole-dipole interaction in the infrared spectrum of
solutions of trialkyl ammonium salts. Dokl. Akad. Nauk SSSR 111 no. 5:1094-
1096 1985. (MIRA 18:10)

1. Nauchno-issledovatel'skiy fizicheskii institut Leningradskogo
gosudarstvennogo universiteta. Leningrad. Submitted March 29,
1985.

L 49228-65 EWT(1) IJP(c)

ACCESSION NR: AP5015367

RU/0004/64/000/009/0317/0320 13
B

AUTHOR: Indreas, Grigore (Engineer, Candidate of technical sciences, Scientific researcher)(Bucharest); Ryltsew, P. I. (Physicist, Scientific researcher)(Dubna)

TITLE: Determining the position of the median surface in electromagnets with axial symmetry 21

SOURCE: Electrotehnica, no. 9, 1964, 317-320

TOPIC TAGS: electromagnet, axially symmetric body

ABSTRACT: (Author's English summary modified): The authors describe several common methods and devices used to determine the position of the magnetic median of electromagnets with axial symmetry, with special emphasis on a simple method which makes use of the Hall effect. Orig. art. has 3 figures and 3 formulas.

ASSOCIATION: Laboratorul reactii nucleare, Institutul unificat de cercetari nucleare, Dubna (Nuclear Reactor Laboratory, United Nuclear Research Institute); Laboratorul de energii inalte, Institutul unificat de cercetari nucleare, Dubna (High Energy Laboratory, United Nuclear Research Institute)

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ACC NR: AP6007826 SOURCE CODE: UR/0120/66/000/001/0139/0143
EWP(v) IJP(c) AT/RM/WH/DJ

AUTHOR: Kozhukhov, I. V.; Muratov, Yu. V.; Rashevskiy, V. P.; Ryl'tsev, P. I.;
Sarantsev, V. P.; Smirnov, Ye. V.

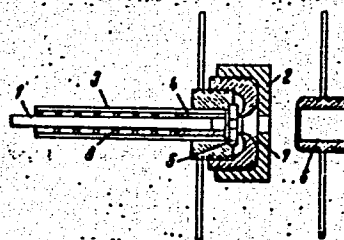
ORG: Joint Nuclear Research Institute (Ob'yedinennyy institut yadernykh issledovaniy)

TITLE: Use of a plasma gun for producing high electron-current peaks

SOURCE: Pribory i tekhnika eksperimenta, no. 1, 1966, 139-143

TOPIC TAGS: plasma gun, pulse shape

ABSTRACT: A new plasma-gun electron source (see figure) consists of three electrodes: discharge electrode 1, diaphragm 5, and extraction electrode 6 mounted on two stainless-steel disks. Plexiglas bushing 4 (active material) is fed by spring 8 toward the gap as the bushing end is burned up. The discharge electrode is insulated by porcelain bushing 3. The tungsten diaphragm has a 1-mm port. Insulated cathode 2 is intended for improving the extraction conditions and focusing; its insulation is designed to withstand a working voltage of 30 kv. The



plasma-gun electron source

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stainless-steel cylindrical extraction electrode is grounded. When a +17-kv "trig-
atron" pulse is applied to the discharge electrode, a spark to the diaphragm
evaporates some of the plexiglass and forms a plasma in chamber 7. An electric field
extracts electrons from the plasma. An electron current of 200 amp was produced in
0.15-0.2-msec peaks when a constant d-c voltage was used for extraction. With a
pulse extraction voltage (provided by a capacitor), an electron-current peak of 1 ka
 10^{-8} sec has become possible. "In conclusion, the authors wish to thank P. F.
Chernyayev for his great contribution to the construction of the experimental outfit."

Orig. art. has: 7 figures.

[03]

SUB CODE: 09 / SUBM DATE: 21Jul64 / ORIG REF: 002 / ATD PRESS 4/223

Card 2/2

RILYCIER, J.

Selye's theory on general syndrome of adaptation and adaptation disease. Poliski tygod: lek. 5:7, 13 Feb. 50. p. 241-3; contd.

1. Of the Department for Internal Diseases of the St. Lazarus Hospital in Warsaw (Head--Prof. Witold Orlowski, M. D.)

GLML 19, 5, Nov., 1950

RYLYUK, A.F.

Fracture and dislocation of the astralgus. Zdrav. Bel. 7 no.6:
61 Je '61. (MIRA 15:2)

1. Iz travmatologicheskogo otdeleniya Brestskoy oblastnoy bol'nitsy
(glavnyy vrach V. G. Tishchenko). rukovoditel' raboty - kand.med.
nauk L.A.Khanin.

(ANKLEBONE FRACTURE) (ANKLE DISLOCATION)

RYMACHENKO, V.S.

Culture of monospermous sugar beets in Altai. Sakh. prom. 31 no.2:
59-60 F '57. (MLRA 10:4)

1. Altayskiy sakhsveklotrest.
(Altai Territory--Sugar beets)

RYMACHEVSKAYA, U.

Rogovin, Z., Hight E., Knuniantz, I., and Rymachevskaya, U.- "Investigations in the Field of Polymerization of Unstable Cycles. II. Polymerization of Caprolactam in the Presence of Small Amounts of Water." (p. 1320)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1947, Vol. 17, No. 7

RYKADHEVSKAYA, R. S.

Bees

Work of honey bees on alfalfa flowers. Pchelovodstvo 29 no. 8, 1952.

Monthly List of Russian Accessions, Library of Congress. November, 1952. Unclassified.

RYMACHEWSKAJA, J. A.

"Ethers glyceriques de cellulose. Comm. I." Chlor guine, P. P. et J. A. Rymachewskaia.
(p. 2428)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii). 1937, Volume 7, No. 18.

S/169/62/000/007/065/149
D228/D307

AUTHORS: Vasil'yeva, M. A., Vlasova, I. I. and Rymanov, V. M.

TITLE: Some problems in the compilation of a composite small-scale map of the USSR's magnetic anomalies (Discourse theses)

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 30, abstract 7A199 (V sb. Sostoyaniye i perspektivy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh, M., Gostoptekhnizdat, 1961, 516)

TEXT: Defects in the method of regional surveys were ascertained when compiling a composite magnetic anomaly map on a scale of 1:1,000,000 for the eastern half of the USSR's European part. Recommendations are given for the method of surveys, their tying in to absolute values, and for the preparation of composite maps. It is expedient to create an All-Union reference aeromagnetic network. ✓
/Abstracter's note: Complete translation. 7

Card 1/1

BORISOV, A.A.; RYMANOV, V.M.

Geological interpretation of magnetic anomalies in the southern part of Central Asia. Dokl.AN SSSR 133 no.6: 1395-1397 Ag '60. (MIRA 13:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut geofizicheskikh metodov razvedki. Predstavleno akad. A.L.Yanshinym.

(Soviet Central Asia--Magnetic anomalies)
(Geology, Structural)

Rymanov, V.M.

807/3852
507/7-4-8

PLANE 1 BOOK INFORMATION

Abdumajit nakh 8508. Laboratoriya aeromagnitnaya

Study, tom 8: Materialy VII Vsesoyuznogo nauchnoissledovatel'skogo sveshchaniya po aeromagnitnuyu 25 noyabrya - 1 dekabrya 1956 g. (Materials of the 7th All-Union Interdepartmental Conference on Aerial Surveying, 25 November-1 December 1956) Moscow, Geogeolizdat, 1959. 300 p. 5,000 copies printed.

Ed. of Publishing House: V. O. Pilyav. Tech. Ed.: O. A. Gurova. Editorial Commission: M. O. Kuznetsov, Corresponding Member, Academy of Sciences USSR; A. A. Logachev, V. P. Mironovskiy (Resp. Ed.), and E. B. Sokolov.

PURPOSE: This publication is intended for photogrammetrists, geologists, geographers, and other scientific and technical personnel concerned with aerial photography.

CONTENTS: This issue of the Transactions of the Laboratory of Aerial Survey Methods contains the second part of materials presented at the 7th All-Union Interdepartmental Conference on Aerial Surveying, which took place in Leningrad, November 25 through December 1, 1956. Articles treat problems dealing with the execution and application of aerial survey methods in geological, geomorphological, and geophysical investigations. Special attention is given to aerial survey methods in geological and geomorphological mapping and geophysical work under different conditions. The techniques of joint airborne magnetic prospecting and aerial photography are described. References accompany individual articles.

SUMMARY OF CONTENTS:

- Kryzhanovskiy, A. I. [All-Union Scientific Research Institute of Geophysical Prospecting Methods]. Results of Applying Large Scale Aerogeophysical Combined (Aeromagnetic and Magnetometric) Method of Prospecting 258
- Orlov, V. P. [Kazakhstan-Isleodromental'nyy Institut nauchnoy magnetizatsii - Scientific Research Institute of Terrestrial Magnetism]. Synoptic (small-scale) Map of Magnetic Anomalies and Methods of Finding the Aeromagnetic-Survey Data to Absolute [Reference] Values of the Magnetic Field Intensity 261
- Rymanov, V. M. [All-Union Scientific Research Institute of Geophysical Prospecting Methods]. Technique and Results of a Regional Aeromagnetic Survey of the Southwestern Russian Plain (To the Study of Local Magnetic Anomalies) Using Aerial-Photo Coordination Methods [Aerial Photo-Ties] 267
- Rudin, P. A. [Great Sibskoye Geofizika - Siberian Trust for Oil Prospecting by Geophysical Methods]. Aeromagnetic Surveys of Siberia and Their Utilization for Geological Purposes 272
- Rylov, V. B. [Kazakhstan Geofizika - Kazakh Geophysical Prospecting Trust]. Results of Integrated Aerogeophysical Exploration in Certain Regions of Kazakhstan 277
- Sokolov, E. B. [All-Union Scientific Research Institute of Geophysical Prospecting Methods]. Results from the Aeromagnetic Survey of Caspian Regions 280
- Vorob'yev, Ya. G. [Kazakhstan geofizicheskiy trust - Western Geophysical Prospecting Trust]. Preliminary Results of the Aeromagnetic Survey in the Eastern Part of Turkmenistan Carried Out in Connection with the Exploration of Oil-bearing Structures 289
- Sokolov, V. L. [All-Union Scientific Research Institute of Geophysical Prospecting Methods]. Application of Aerial-Survey Methods and Equipment to Geophysical Oil Prospecting 293
- Pallitov, E. D., G. M. Dreyer, and A. A. Gaurin [Laboratory of Aerial-Survey Methods, Academy of Sciences, USSR]. An Integrated (Combined) Use of Aerial Photography and Aerogeophysical Prospecting in Geological Explorations 296

AVAILABLE: Library of Congress

Card 10/10

AS/aw/ee
7-38-60

MARTYSHEVA, Galina Andreyevna; RYMALOV, V.V., otv. red.; PANTELEYEV, V.,
red.; CHEPELEVA, O., tekhn. red.

[Southeastern Asia after the Second World War] Iugo-Vostochnaia
Aziia posle vtoroi mirovoi voyny. Moskva, Izd-vo sotsial'no-
ekon. lit-ry, 1960. 403 p. (MIRA 14:11)
(Asia, Southeastern--Economic conditions)
(Asia, Southeastern--Politics)

RYMALOV, Viktor Vladimirovich; TYAGUNENKO, Viktor Leonidovich; ARZUMANYAN, A.A., otv. red.; MAKAROV, V., red.; DARONYAN, M., mladshiy red.; MOSKVINA, R., tekhn. red.

[Underdeveloped countries in the world capitalist economy] Slaborazvitye strany v mirovom kapitalisticheskom khoziaistve. Moskva, Izd-vo sotsial'no-ekon. lit-ry, 1961. 494 p. (MIRA 14:12)

1. Chlen-korrespondent AN SSSR (for Arzumanyan).
(Underdeveloped areas) (Economic conditions)

MAYDANIK, K.L., kand. ist. nauk; KISLYAKOV, V.S., kand. ist. nauk;
PETRANOVICH, I.M., kand. ekon. nauk; PESCHANSKIY, V.V., kand.
ist. nauk; USVIATSOV, A.Ye., kand. ekon. nauk; KHOLODKOVSKIY,
K.G.,; BURDZHALOV, F.E.; VIL'KHOVCHENKO, E.D.; MALOV, V.N.;
PETROVA, Z.A.; ARZUMANYAN, A.A., glav. red.; TIMOFEYEV, T.T., zam.glav.
red.; RYMALOV, V.V., red.; LYUBIMOVA, V.V., red.; SHEVLYAGIN,
D.P., red.; VEYNBERG, F., red.; DANILINA, A., tekhn. red.

[Labor movement in capitalist countries, 1959 - 1961] Rabochee
dvizhenie v kapitalisticheskikh stranakh, 1959 - 1961 gg. Mo-
skva, Gos. izd-vo polit. lit-ry, 1961. 583 p. (MIRA 14:12)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhduna-
rodnykh otnoshenii. 2. Sektor mezhdunarodnogo rabocheho i kom-
munisticheskogo dvizheniya Instituta mirovoy ekonomiki i mezhd-
narodnykh otnosheniy (for Maydanik, Kislyakov, Petranovich,
Peschanskiy, Usvyatsov, Kholodkovskiy, Burdzhhalov, Vil'khovchenko,
Malov, Petrova).

(Labor and laboring classes)

OSTROVITYANOV, K.V., akademik; GATOVSKIY, L.M.; KUZ'MINOV, I.I.,
doktor ekon. nauk; Prinayali uchastiye: STAROVSKIY, V.N.;
SAKOV, M.P.; BACHURIN, A.V.; ZASLAVSKAYA, T.I.; BOGOMOLOV,
O.T.; RYMALOV, V.V.; RABINOVICH, M., red.; MUKHIN, Yu.,
tekhn. red.

[Economics; textbook] Politicheskaya ekonomiya; uchebnik.
4., perer. i dop. izd. Moskva, Gospolitizdat, 1962. 702 p.
(MIRA 15:11)

1. Akademiya nauk SSSR. Institut ekonomiki. 2. Chlen-
korrespondent Akademii nauk SSSR (for Gatovskiy, Starovskiy).
(Economics)

SAVEL'YEV, Nikolay Aleksandrovich; BERKOV, V.V., ed. rel.
FRIDMAN, L.Sh., red.

[Small-scale industry in India] Malloe proizvodstvo v Indii.
Moskva, Nauka, 1964. 138 p. (MIRA 17:9)

GUZEVATII, Ya.N.; RYMALOV, V.V., otv. red.; STERKINA, S., red.;
YAZLOVSKAYA, E.Sh., tekhn. red.

[Classes and the class struggle in economically under-
developed countries] Klassy i klassovaia bor'ba v ekonomii
chieski slaborazvitykh stranakh. Moskva, Izd-vo vostochnoi
lit-ry, 1963. 125 p. (MIRA 16:7)
(Underdeveloped areas--Social conflict)

VINGRADOV, Leonid Nikolayevich; RYMANOV, B.A., spets. red.;
VASIL'YEV, A.A., red.

[Textbook for training television repairmen] Uchebnoe po-
sobie dlia podgotovki masterov po remontu televizorov.
Moskva, Izd-vo DOSAF, 1965. 221 p. (MIRA 18:11)

METUZALEM, Yevgeniy Vasil'yevna; RYMANOV, Yevgeniy Afanas'yevich;
KUZ'MINOV, A.I., red. ~~_____~~

["Start, "Start-2", and "Start-3" television receivers]
Televizory "Start", "Start-2" i "Start 3". Moskva,
Energia, 1965. 94 p. (Massovaya radiobiblioteka, no. 556)
(MIRA 19:1)

SAMOYLOV, G.P.; RYMANOV, Ye.A.

Mobile radio and television repair shop. Vest. svyazi 22
no.5:14-16 My '62. (MIRA 15:5)

1. Glavnyy inzhener Televizionnogo tresta Ministerstva svyazi
RSFSR (for Samoylov). 2. Nachal'nik Tekhnicheskogo otdela
Televizionnogo tresta Ministerstva svyazi RSFSR (for Rymanov).
(Radio--Repairing) (Television--Repairing)

METUZALEM, Yevgeniya Vasil'yevna; RYMANOV, Yevgeniy Afanas'yevich;
YAKOBSON, A.Kh., red.; FRIDKIN, L.M., tekhn. red.

["Rubin", "Rubin-102", and "Radii" television receivers]
"Rubin", "Rubin-102", "Radii". Moskva, Gosenergoizdat,
1963. 120 p. (Massovaia radiobiblioteka, no.489)
(MIRA 17:3)

METUZALEM, Yevgeniya Vasil'yevna; RYMANOV, Yevgeniy Afanas'yevich;
YAKOBSON, A.Kh., red.; BUL'DYAYEV, N.A., tekhn. red.

["Zaria", "Zaria-2", "Sputnik", and "Volkhov" television
receivers]Televizory "Zaria", "Zaria-2", "Sputnik", "Volkhov".
Moskva, Gosenergoizdat, 1962. 87 p. (Massovaya radiobiblioteka,
no.458) (MIRA 16:3)

(Television—Receivers and reception)

ULANOVA, Ye.S.; RYMAR, A.L.

Relations of optimum moisture supply in different soil layers
in winter wheat fields during the fall. Trudy TSIP no.131:53-63
'63. (MIRA 16:9)

RYMAR', B. (Taganrog)

Measurement of electric and magnetic quantities. Radio no.8:
32-36 Ag '63. (MIRA 16:9)
(Electric measurements) (Magnetic measurements)

RYMAR', B, inzh. (Taganrog)

Measurements in low-frequency a.c. circuits. Radio no. 9:32-35
S '63.

(MIRA 16:12)

RYMAR', B.

Improve the control over construction subsidized by bank credits.
Den. i kred. 19 no.8:73-75 Ag '61. (MIRA 14:9)

1. Nachal'nik tekhnicheskogo otdela Ukrainskoy respublikanskoy
kontory Gosbanka.

(Ukraine--Banks and banking)
(Ukraine--Construction industry--Finance)

RYMAR, E. L.

232T67

USSR/Electricity - Measuring Instru-
ments Sep 52

"Review of P. N. Goryunov, S. M. Pigina, and
N. M. Shumlowsky's Book, 'Electric Meters'"
B. L. Rymar', V. A. Kochan, V. A. Petrovsky,
B. V. Mochalov, Members of Chair of Automatic
and Measuring Devices, L'vov Polytech Inst

"Elektrichstvo" No 9, pp 95, 96

Favorable review of subject book on elec me-
ters [yatt-hour meters]. States that no Soviet
books had been written on this subject since

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the works of P. N. Sedov, N. N. Shumlowsky, and
others published in 1933-1935.

232T67

RYMAR', D., inzh.

"Evbiolit" slabs. Prom.koop. 13 no.2:17 F '59.

(MIRA 12:4)

1. Proyektno-konstruktorskaya kontora oblpromsoвета, Moskva.
(Building materials)

RYMAR, D. I.

Dairying - Apparatus and Supplies

Mechanization of milk processing on collective farms. Sots. zhiv. 14 no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1977, Uncl.
52

PAVLYUKOV, A.A., red.; KOZIN, V.M., red.; RYMAR, G.V., red.; ZHUKOVA,
Z.P., otv. za vypusk; ZAYATS, F.M., red.; KUZNETSOVA, V.Ya.,
tekhn.red.

[Synthetic resins and molded materials; a concise manual] Sinte-
ticheskie smoly i pressovochnye materialy; kratkii spravochnik.
Pod obshchei red. A.A.Pavliukova, V.M.Kozina, G.V.Rymar. Lugansk.
1959. 76 p. (MIRA 14:2)

1. Russia (1917- R.S.F.S.R.) Luganskiy ekonomicheskii admi-
nistrativnyy rayon. Byuro tekhnicheskoy informatsii.
(Resins, Synthetic)

LEVITIN, A., inzh.; RYMAR, I., inzh.

Improving the design of light-industry enterprises. Prom.stroi.i
inzh.soor. 4 no.1:18-23 Ja-F '62. (MIRA 15:8)
(Factories--Design and construction)

CHUDNOVSKIY, V.G., doktor tekhn.nauk, prof. (Kiyev); RYMAR, I.M., inzh.
(Kiyev)

Design of ribbed thin-walled domes. Rasch.prostr.konstr. no.7:
5-37 '62. (MIRA 15:4)

(Domes)

NEKRASOVSKIY, Yakov El'konovich; RYMAR, Izrail' Mironovich; KALMYK,
M.K., otv.red.; ZHUKOV, V.V., red.izd-va; SABITOV, A., tekhn.
red.; SHKLYAR, S.Ya., tekhn.red.

[Rapid development mining] Opyt skorostnogo provedeniia pod-
gotovitel'nykh vyrabotok. Moskva, Gos.nauchno-tekhn.izd-vo
lit-ry po gornomu delu, 1960. 92 p. (MIRA 13:7)
(Coal mines and mining)

RYMAR

RYMAR, I.; KOLOMEYETS, D.; DUDNOY, P., gornyy master; KUDINOV, G., brigadir prokhodchikov, Geroy Sotsialisticheskogo Truda; LYSENKO, K., mashinist elektrovoza

More widespread use of new mining techniques. Mast. ugl. 4 no. 7:3-6
Jl '55. (MIRA 8:10)

1. Nachal'nik shakhty no. 3-5 "Sokologorovka" (for Rymar). 2. Nachal'nik uchastka no. 6 (for Kolomeyets)
(Coal mines and mining)

RYMAR, J.K.: DABROWSKI, St.

An analysis of changes in the shape of the wings of *Phytometra gamma* Haw. received by intrachrysalid injections. *Folia biol* 7 no.3:277-299 '59. (EEAI 9:11)

1. De l'Institut de Biologie de l'Academie de Medicine de Cracovie et de l'Institut de Zoologie Experimentale de l'Academie Polonaise de Sciences.

(PHYTOMETRA GAMMA) (WINGS) (COFFEE)

RYMAR, JAN.

RYMAR, Jan

Experimental quantitative and qualitative studies on the blood picture of the small circulation in rabbits. Pat. polska 5 no.1: 1-8 Ja-Mr '54.

1. Z III Kliniki Wewnętrznej Akademii Medycznej w Krakowie.

Kierownik: prof. dr med. J. Aleksandrowicz.

(LUNGS, blood supply,

*lesser circ. blood picture in rabbits)

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Changes in coloring of the wings of *Lymantria dispar* by the method of Zacwilichowski. J. Ryman (Jagellonian Univ., Crakow). Bull. intern. Acad. polon. sci., Classe sci. math. nat. 1946, BII, 261-8. - Pupae of *Lymantria dispar* (I) and *Vanessa urticae* (II) were injected, just after pupation, with various preps. With mixts. of phenolic bodies and peroxidase little change was observed in II, but in I females, the normally light ground wing color darkened whereas, in I males, the dark color of the wings was lighter. In contrast, when an oxidized collect. was injected, a marked wing color change was observed in II but not in I. The sex differences observed prove that the hydroxyaromatic compds. did not act as pigments but rather caused disturbances in pigment production.

J. O. Holmes

RYMAR, J.

New experimental modifications of Phytometra gamma Haw, obtained by the application of chemical injections for larvae. p. 41.
FOLIA BIOLOGICA. (Panstwowe Wydawnictwo Naukowe), Warszawa. Vol. 1, nos. 2-4, 1953. Vol. 2, no. 3/4, 1954. DAFM Vol. 3, no. 1, 1955.

So. East European Accessions List. Vol. 5, no. 1, Jan. 1956

RYMAR, J.

✓ 2483. New experimental modifications of *Phytometra gamma* Haw. obtained by the application of chemical factors. J. Rymar *Folia Biol. Warsaw*, 1955, 3, 41—54.—Modifications of the wing pattern in *P. gamma* Haw. (*Noctuidae*) are described which were obtained by intrapupal injections of raw coffee bean ("Santos") aq. extract enzymically oxidised with horse radish (*Cochlearia armoracia*) peroxidase in a 3% H_2O_2 soln. The age of injected pupae ranged from 3—20 hr. The 4 wing patterns observed are arranged by differences in the degree of change of the gamma sign and the rest of the wing pattern. The chemical factor applied in the form of intrapupal injections interferes with the developmental processes of the scale-producing cells in the early stages of pupal life, most probably through changes in the metabolism of poly-oxyphenolic compounds in the haemolymph of the pupa. B. VINEY.

C. H. 111

A new group of organic compounds which on injection modify the wing pattern of Lepidoptera. J. Rymar. *Bull. intern. acad. polon. sci., Classe sci. math. et nat.* 1047, III, 317-39 (in French). The origin of the wing patterns of Lepidoptera is attributed to tyrosinase acting on tyrosine to form melanin or other enzymes known collectively as chromoxidases. High and low temps. acting for 48 hrs. on the pupae of Lepidoptera also strongly modify the wing pattern, producing, in general, forms much richer in melanin. Zdzienickowski (Pam. XIV, *Zprawy Pracy i Tek. Pol. w Poznaniu*, T. I (1939); C.A. 31, 87149) obtained varieties of Lepidoptera identical with those produced by high and low temps. by injecting phosphotungstic and phosphomolybdic acids into the newly formed pupae. R's studies involved injection of solns. of various substances into pupae of *Lamprolaima nitens*, at 2-4% of pupal wt. Pupae of other sp. (*Lamprolaima* sp., *L. poly. chrys.*, *L. albidula*, *Polyommatus caeruleus*, *Phylometra gamma*) were used in some expts. The pupae were usually injected 12-18 hrs. after transformation from the larvae. One % solns. of pyrogallol, pyrocatechol, protocatechuic acid, caffeic acid, gallic acid, and tannin were injected as such; the hydroxybenzene compds. cited, after mixing with 1% FeCl₃ soln. to produce colored compds., were also injected. The same compds. oxidized by contact with air of their 1 to 2% or of their satd. solns. contg. 1 part NH₄OH to 3 parts soln., were likewise in-

jected. In other expts., the polyphenols were oxidized in oxygenated H₂O by peroxidase extd. from radish root, and in others, exts. of red rose petals and of unroasted coffee grains, reacted with radish peroxidase in oxygenated H₂O. Expts. were also made with methylene blue and cochenille (Grubler); others with 1% solns. of HCl, H₂SO₄, H₃PO₄, HNO₃, and sulfosalicylic, uric, taurocholic, glycocholic, and nucleic acids, and with various amino acids, alkaloids, enzymes, adrenaline, etc. Only the colored substances obtained by oxidation of the hydroxy aromatic compds. produced variations of wing pattern. These variations do not differ from those produced by injection of phosphotungstic and phosphomolybdic acids. On the other hand, high and low temps. produce varieties which show a quite identical resemblance to those obtained by injection. Some of the compds. injected are known to ppt. the hemolymph, others do not, pptn. of the proteins of the hemolymph does not provoke variations in the wing patterns. The effect of chem. and phys. agents is not solely an increase in melanin but rather a disturbance of the localization of the dark- and light-colored wing scales. The various patterns produced by these agents are described. Either the agents damage the mechanism of the wing buds so that the design of the pattern is reproduced in a simplified manner, or the wing buds have the power to form designs; a power ordinarily not realized but which is brought into action by certain chem. agents and by heat and cold. C. H. Richardson

RYMAR, L.P.

Growing quince on the "Kopanka" State Farm. Kons.1 ov.prom. 12
no.6:37-38 Je '57. (MIRA 10:7)

1. Sovkhoz "Kopanka."
(Quince)

RYMAR, L.P.

How we achieved the high yield of tomatoes. Kons.i ov.prom. 16
no.3:25-28 Mr '61. (MIRA 14:3)

1. Sovkhoz "Kopanka."
(Moldavia—Tomatoes)

KRAMAR, V.Ya.; RYMAR', L.P.

Modeling jet engines. Fiz. v shkole 17 no.1:62-64 Ja-F
'57. (MLRA 10:2)

1. 4-ya srednyaya shkola, Konotop.
(Jet propulsion)

SOV-27-58-9-19/28

AUTHOR: Rymar', N., Deputy Director of Cultural-Educational Work

TITLE: Lecture-Propaganda

PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1958, Nr 9,
pp 26 - 27 (USSR)

ABSTRACT: Together with professional training of young students of
the building trade, the general educational level is being
raised by lectures and discussions. Frequently, guests
from other schools are asked to hold lectures, whereby the
various themes are also prepared by the students of this
school. The author mentions some of the themes which do
not pertain to professional training, such as "The Youth
of the World Stands For Peace" and other ideological pro-
paganda. Experience has shown that well conducted lecture-
propaganda at schools can be considered as a valuable
means for strengthening communist ideology.

ASSOCIATION: Stroitel'noye uchilishche Nr 4 (Khersonskaya oblast') Con-
struction School Nr 4 (Kherson' oblast)

1. Propaganda--USSR

Card 1/1

RYMAR', N.

Propaganda by means of lectures. Prof.-tekh.obr. 15 no.9:26-27 S '58.
(MIRA 11:11)

1. Pomoshchnik direktora po kul'turno-vospitatel'noy rabote stroitel'nogo uchilishcha No.4 (Khersonskaya oblast')
(Building trades--Study and teaching) (Communist education)

RYMAR, N.

27-6-20/29

AUTHOR: Rymar' N., Secretary of the School's Party Organization.

TITLE: Good Results (Khoroshiye rezul'taty)

PERIODICAL: Professional'no - Tekhnicheskoye Obrazovaniye, 1957, Nr.6(145)
p 28 (USSR)

ABSTRACT: The short article describes the achievements of students' groups of construction school Nr. 4 in Kherson in manufacturing instruction models. They now work on a model of a 2-story house and on a 4x2 m carpet with the picture of Lenin. In a special exhibition room, the school is displaying 120 items produced by the students.

ASSOCIATION: Construction School Nr. 4, Kherson (Stroitel'naya shkola No 4, Kherson)

AVAILABLE: Library of Congress

Card 1/1

IVANOV, A.G.; BURDUE, G.D., doktor tekhn. nauk, prof.; VOLOSOV,
S.S.; KOROTEV, V.F.; PED', Ye.I.; ROSTOVYKH, A.Y.;
RYKAL', L.F.; TAYTS, E.A., doktor tekhn. nauk, prof.;
KOCHENOV, M.I., kand. tekhn. nauk, retsenzent

[Measuring instruments used in the manufacture of ma-
chinery] Izmeritel'nye pribory v mashinostroenii. Mo-
skva, Mashinostroenie, 1964. 523 p. (E114 18:1)

REHAR, M. V., Engineer

"The Automatization of Checking
the size of Parts in Modern
Production" Stanki i Instrument,
12, No. 6, 1941

Report U-1503, 4 Oct. 1951

RYMAR', N. F., Engineer

"Modern Measuring Attachments"
Stanki I Instrument, 17, No. 9, 1946



RYMAR', N.F.

Automatization of measurement control. Izv.tekh. no.6:61-65 N-D '56.
(MIRA 10:1)
(Automatic control) (Measuring instruments)

RYMAR, N.F.
KOROTKOV, Vladimir Petrovich; ~~RYMAR, N.F.~~ nauchnyy redaktor;
SEREBRENNIKOVA, L.A., redaktor; MATYSEVICH, N.L., tekhnicheskii
redaktor.

[Measuring length and angles in machinery manufacturing]
Izmerenie dlin i uglov v mashinostroenii. Moskva, Vses. uchebno-
pedagog. izd-vo Trudrezervizdat, 1957. 99 p. (MIRA 10:11)
(Measuring instruments) (Machine-shop practice)

RYMAR, L.F.

BELOUSOV, A.V.; RYMAR', N.F., inzhener; retsenzent; IVANOV, A.G., kandidat
tekhnicheskikh nauk, redaktor; PROKOP'YEVA, L.G., redaktor izdatel'stva;
UVAROVA, A.F., tekhnicheskiiy redaktor.

[Organizing the work of a measuring laboratory in a machine
manufacturing plant] Organizatsiia raboty izmeritel'noi laboratorii
mashinostroitel'nogo zavoda. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry, 1957. 101 p. (MIRA 10:11)

(Mensuration)

HUDYKIN, Grigoriy Alekseyevich; ~~RYMAR', N.F.~~, inzh., retsenzent; SHELKOV,
N.I., inzh., red.; UVAROVA, A.F., tekhn. red.

[Measurement of dimensions in machine building] Tekhnika izmerenija
v mashinostroenii. Izd. 3., perer. Moskva, Gos. nauchno-tekhn. izd-
vo mashinostroit. lit-ry, 1958. 351 p. (MIRA 11:9)
(Measuring instruments)

AVDEYEV, B.A.; RYMAR', N.F., inzh., retsenzent; ARAPOV, P.P., inzh., red.;
KOCHETOVA, G.F., nauchnyy red. izd-va; UVAROVA, A.F., tekhn.red.

[Methods of determining mechanical properties of materials]
Tekhnika opredeleniia mekhanicheskikh svoistv materialov. Izd.
3-e, perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. lit-ry, 1958. 474 p. (MIRA 11:5)
(Materials--Testing)

AVDEYEV, B.A.; RYMAR', N.F., inzh., retsenzent; TUCHKOVA, L.K.,
inzh., red.

[Techniques for determining the mechanical properties of
materials] Tekhnika opredeleniia mekhanicheskikh svoistv
materialov. Izd.4., ispr. 1 dop. Moskva, Mashinostroenie,
1965. 487 p. (MIRA 18:7)

EYDINOV, Veniamin Yakovlevich; RYMAR', N.F., nauchn. red.; RYSKO,
S.Ya., red.izd-va; LAVRENOVA, N.B., tekhn. red.;
TIMOFEYEVA, N.V., tekhn. red.

[Measurement of angles in the machinery industry] Izmerenie
uglov v mashinostroenii. Moskva, Standartgiz, 1963. 413 p.
(MIRA 16:12)

(Angle—Measurement)

SHCHEDROVITSKIY, S.S.; Primal uchastiye ~~FRER~~, G.L., inzh.; RYMAR¹,
N.F., dots., nauchnyy red.; ZELKIN, I., red. izd-va; MATVEYEVA, A.,
tekh. red.

[Equipment for the measurement of mass] Tekhnika izmereniia massy.
Moskva, Standartgiz, 1961. 353 p. (MIRA 15:10)
(Weighing machines)

SHCHEDROVITSKIY, S.S. Prinimali Uchastiye: FURER, G.L., inzh.; FLEKSER, L.A., inzh.; RYMAR', N.F., dotsent, nauchnyy red.; ZELKIN, I., red.izd-va; MATVEYEVA, A., tekhn. red.

[Mass measuring equipment] Tekhnika izmereniia massy. Moskva, Gos. izd-vo standartov, 1961. 353 p. (MIRA 14:11)

1. Glavnyy konstruktor zavoda vesovykh avtomatov im. Dzerzhinskogo (for Furer).
(Weighing machines) (Weights and measures)

RYMAR', N.F., red.; KUZNETSOVA, M.I., red. izd.-va; MATVEYEVA, A.Ye., tekhn. red.

[Instructions 98-50 for checking UM-2 spectroscope-monochromators]
Instruktsiia 98-50 dlia poverki spektroskopov-monokhromatorov
tipa U.-2. Izd. ofitsial'noe. Moskva, 1957. 10 p. (MIRA 14:5)

1. Russia (1923- U.S.S.R.) Komitet standartov, mer i izmeritel'-
nykh priborov. (Spectroscope---Testing)

RYMAR', N.F., red.

[Instructions 75-50 for checking gauge blocks of the first and second categories by means of the absolute interference method]
Instruktsiia 75-50 dlia poverki ploskoparallel'nykh kontsevykh mer dliny 1-go i 2-go razriadov absoliutnym interferentsionnym metodom. Izd. ofitsial'noe. Moskva, 1957. 48 p.
(MIRA 14:5)

1. Russia(1923- U.S.S.R.) Komitet standartov, mer i izmeritel'nykh priborov.

(Gauges--Testing)

1. RYMAR', P.
2. USSR (60)
4. Irrigation
7. Some results of introducing monetary payment for irrigation water. Sots. sel'khoz.
23 no. 12 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

14-57-6-13006

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 6,
p 168 (USSR)

AUTHOR: Rymar', P. S.

TITLE: Planned Water Utilization--a Basis for Improving
Reclaimed Irrigated Land (Planovoye vodopol'zovaniye -
kak osnovnoye meropriyatiye po uluchsheniyu meliora-
tivnogo sostoyaniya oroshayemykh zemel')

PERIODICAL: Tr. 8-y ob'yedin. sessii AN TurkmSSR po vopr. str-va
Karakumsk. kanala i dal'neysh. razvitiya khlopkovodstva
v Turkmenistane, 1955, Ashkhabad, 1956, pp 180-189

ABSTRACT: Basing his conclusion on an analysis of data obtained
by the collective farms of the Golodnaya Steppe
(Uzbekistan SSR) and the Turkmen SSR, the author
asserts that water expenditure per hectare and per
each 1-- kg of produce should be reduced below the
present level. In this way irrigation waters could be

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Planned Water Utilization (Cont.)

14-57-6-13006

increased, crop yields would be larger (particularly those of cotton), ground water level would be lower and the danger from salting or soil swamping would be lessened.

Card 2/2

No name.

RYMAR', V.A. [Rymar, V.A.]

Manufacture of warp pile ribbon on the TL-80ShL ribbon
looms. Leh. prom. no.3:49-51 JI-S '65. (MIRA 18:9)

KUCHEVSKIY, A.N., inzh.; RYMAR, Yu.Ya., inzh.; NAKONECHNYI, S.I., inzh.

Mathematical method for calculating optimum charge. Mashinostroyeniye
no.3:48-50 Vy-Je '64.

(MIRA 17:11)

EXCERPTA MEDICA Sec 16 Vol 7/9 Cancer Sept 59

3595. **Comparative investigations on the oxygen absorption by carcinoma and amytal ascites sarcoma cells in mice** Porównawcze badania nad pobieraniem tlenu przez komórki raka i mięsaka puchlinowego u myszy. Doniesienia wstępne. RYMAR J. Zakł. Biol. Nowot. Inst. Onkol. Oddz. Gliwice Nowotwory 1958, 8/3-4 (221-224) Tables 1

The O_2 absorption was measured by the Carthesian diver technique at a temperature of $39.5^\circ C$. It was found that in spite of morphological and biological similarities of both tumours, the carcinoma cells absorb 1.6 times more O_2 than the sarcoma cells. After several hours of exposing the neoplastic exudate to a temperature of about $+4^\circ C$, the cells of both kinds of tumour use a great deal more O_2 .

RYMARCHUK, A.M.

Belt conveyor for beet pulp transportation. Sakh.prom. 37 no.2:
55(135)-56(136) F '63. (MIRA 16:5)

1. Ukrainskiy gosudarstvennyy institut po proyektirovaniyu
predpriyatiy sakharnoy promyshlennosti.
(Conveying machinery)
(Sugar industry--Equipment and supplies)

RYMARCHUK, A.M.

More consideration to be given to the economy of building materials. Sakh.prom. 34 no.3:33 Mr '23.1960.
(MIRA 13:6)

1. Ukgiprosakhar.
(Sugar industry--Equipment and supplies)

86-1

L 41026-66 EWT(1)/REQ(K)-2/FBD/EWP(K)/T IJP(c) WG
ACC NR: AP6026983 SOURCE CODE: UR/0051/66/021/002/0258/0260

AUTHOR: Kalitayevskiy, N. I.; Popov, M. M.; Rymarchuk, Yu. A.; Tolchinskaya, T. B.; Chayka, M. P.

ORG: none

TITLE: Gas laser generation power in nearly confocal resonators

SOURCE: Optika i spektroskopiya, v. 21, no. 2; 1966, 258-260

TOPIC TAGS: gas laser, neon helium laser, infrared laser, LASER ENERGY, NEON, HELIUM

ABSTRACT: A qualitative explanation of the mechanism responsible for the appearance of the maximum of power generation in a nearly confocal resonator of a gas laser is offered. The generation of a neon-helium laser at $\lambda = 0.63$ and 1.15μ was studied. It is shown that because of a decrease in the figure of merit in the region of instability of the generation, a minimum should appear on the curve representing the generation power as a function of L (L being the distance between the mirrors). The width of the minimum is equal to the width of the instability region traversed, and is determined by the difference in the mirror radii ΔR . In a study of a resonator with mirrors whose radii $R_1 = R_2 = 250$ cm within 0.4 cm, minima were obtained whose width was greater than 0.4 cm and was varied by shifting the discharge tube along the resonator axis and replacing the tube by another. These experimental data were attributed to the distorting influence of the exit windows of the discharge tube. It is shown

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UDC: 621.375.9:535 (206.3)

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that a tube window built with an error of $\sim \frac{\lambda}{2}$ and consisting of a lens with a focal length of 100 m causes the appearance of a region of instability of width $\Delta L = 6$ cm at $R = 250$ cm. The region of instability was found in similar fashion for a resonator where the space between one of the mirrors and the window is filled with a gas with refractive index N_r different from the refractive index of air, N_a . In this case, $L = \frac{N_r - N_a}{N_r} R$. These calculations were confirmed in a series of experiments. Authors are grateful to E. Ye. Fradkin for his discussion and to A. N. Razumovskiy for his assistance in the experiment. Orig. art. has: 2 figures and 1 formula. [27]

SUB CODE: 20/ SUBM DATE: 14Mar66/ ORIG REF: 005/ OTH REF: 002/ ATD PRESS:

5057

Card 2/2 hs

RYMARENKO, A., (Gds Engr-Lt Col)

Listed as author of article, "Teaching How to Overcome Obstacles and Barricades," which appeared in Tankist, No 5, May 54. (Sovetskaya Armiya, Group of Soviet Forces, Germany, 25 May 54).

SO: SUM No. 208, 9 Sep 1954

RYMARENKO, A., Gds Engr-Lt Col

Author of article, "Utilization of Combat Vehicles in Fall and Winter Conditions," concerning several aspects of preventive maintenance of combat vehicles. Voyenyy Vestnik, Moscow, No 8, Aug 54

SO: SUM 291, 2 Dec 1954

RYMARENKO, A., (Gds Engr-Lt Col)

RYMARENKO, A., (Gds Engr-Lt Col) - Author of article, "Teaching the Elimination of Breakdowns in the Electric Equipment of a Tank." (Voyenny Vestnik, No. 2, Feb 54).

SO: SUM 163, 19 July 1954.

RYMARENKI, V. Ya.

New apparatus for demonstrating some laws of higher nervous activity in a psychology course. Vop.psikhol. no.1:124-128
Ja-F '56. (MLRA 9:5)

1. Nezhinskiy pedagogicheskiy institut.
(Psychological apparatus)

RYMARENKO, B. A.

Sur les polynômes monotones. Ukrk., Zap. matem. T-va (4), 4 (1930), 95-102.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.,
Markushevich, A. I.,
Rashevskiy, P. K.
Moscow-Leningrad, 1948

RYMARENKO, B. A.

O minimal'nom srednem kvadratichnom otklonenii polinoma odnoy stepeni ot nulya. L., trudy vtorogo vsesoyuzn. Matem s'yezda (1936), 211-215 i drugikh. Kazan', Uchen. zap. un-ta, 96:4-5 (1936), 73-124.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A. G.,
Markushevich, A. I.,
Rashevskiy, P. K.
Moscow-Leningrad, 1948

Rymarenko, D. A.

Rymarenko, B. A. On polynomials which are monotonic on the whole real axis. Doklady Akad. Nauk SSSR (N.S.) 71, 1029-1032 (1950). (Russian)

The author states without proof the solutions of the problems of finding the smallest variation on $[-1, 1]$, and the minimizing polynomial, for polynomials of odd degree n which are monotone increasing on the whole real axis and for which either (1) the coefficients of x^n , x^{n-1} , x^{n-2} are given; (2) the coefficient of x^n and the derivative at a prescribed point are given; or (3) the first two derivatives are given at 1. The solutions are too complicated to reproduce here.

R. P. Boas, Jr. (Evanston, Ill.)

Source: Mathematical Reviews,

Vol. 11 No. 9

Rymarenko BA.

2

Rymarenko, B. A. More about polynomials which are monotonic on the whole real axis. Doklady Akad. Nauk SSSR (N.S.) 75, 5-6 (1950). (Russian)
The author continues his work [same Doklady (N.S.) 71, 1029-1032 (1950); these Rev. 11, 662] on the smallest variation L_{m+1} on $(-1, 1)$ of a polynomial $y(x)$ of degree $2m+1$ which increases on the whole real axis and is subjected to additional conditions. Here the conditions are $y'(x_i) = s_i \geq 0$ ($i=1, \dots, p \leq m$); an explicit solution is given when x_i are roots of the Legendre polynomial of degree m , and the asymptotic behavior of L_{m+1} is found when x_i are arbitrary in $(-1, 1)$. R. P. Boas, Jr. (Evanston, Ill.)

Smul
202

Source: Mathematical Reviews,

Vol. 12, No. 6

Рымаренко, Б. А. On the least deviation from zero of a cyclically monotonic polynomial with its two highest coefficients given. Doklady Akad. Nauk SSSR (N.S.) 83, 179-182 (1952). (Russian)

The author solves the following extremal problem: to find, among all polynomials of the form $x^n - ax^{n-1} + \dots$, which are cyclically monotonic of degree p on $(0, 1)$, $p \leq n-2$, those deviating least from zero, and the value of the deviation. (A function $f(x)$ is cyclically monotonic of degree p if $f^{(k)}(x)f^{(k+2)}(x) \leq 0$ for $0 \leq k \leq m-2$.) The results depend on S. Bernstein's work [Izvestiya Akad. Nauk SSSR, Ser. Mat. 14, 381-404 (1950); these Rev. 12, 322] and are expressed in terms of the functions $S_n(x)$ and $C_n(x)$ introduced there.

R. P. Boas, Jr. (Evanston, Ill.)

Source: Mathematical Reviews,

Vol 13 No. 7

RYMARENKO, B.A.

~~www.cia.gov/library/~~

One problem, analogous to the problems of E.I.Zolotarev and N.I.Akhiezer.
Trudy Inst.mat.i mekh. AN Uz.SSR no.10:129-133 part 2. '53.
(Polynomials) (MIRA 8:4)

Rymarenko B. A.

V Rymarenko, B. A. On application of S. N. Bernstein's method in the theory of monotonic polynomials. Dokl.

Akad. Nauk SSSR (N.S.) 103 (1955), 373-375. (Russian) 1 - F/W

Theorem. Let T be the class of polynomials $y(x) = \sum p_k x^k$ of degree $\leq n$ with $p'(x) \geq 0$ ($|x| \leq 1$) and satisfying $\sum_{k \leq n} \alpha_k p_k = A$ and $y(-1) = 0$. Then $\inf_{y \in T} [y(1) - y(-1)]$ is attained for a polynomial of the form

$$\int_{-1}^{\alpha} (1-x)^{\alpha} (1+x)^{\beta} U^2(x) dx,$$

where α, β are 0 or 1 and U is a polynomial of degree $(n-1-\alpha-\beta)/2$ whose roots lie in $-1 \leq x \leq 1$. A similar theorem is proved with T replaced by the class of polynomials increasing on the whole real axis and subject to two linear conditions on the coefficients.

W. H. J. Fuchs (Ithaca, N.Y.).

RYMARENKO, B. A.

Call Nr: AF 1108825

Transactions of the Third All-union Mathematical Congress (Cont.) Moscow,
Jun-Jul '56, Trudy '56, V. 1, Sect. Rpts., Izdatel'stvo AN SSSR, Moscow, 1956, 237 pp.
Romanovskiy, P. I. (Moscow). On Integral Transformations
Analogous To Laplace Transformations. 98

Rymarenko, B. A. (Leningrad). Some Extremal Problems of the
Theory of Monotone Functions. 98-99

Sarymsakov, T. A. (Tashkent). Polynomial Sequences With a
Regular Distribution of Zeros. 99

Safronova, G. P. (Leningrad). Application of Orlich Metrics
to Some Boundary Problems of the Theory of Analytic Function 99-100

Seleznev, A. I. (Gor'kiy). On Functions Which are Monogenic
on Never Dense Closed Sets, and on F_σ Type Sets. 100-101

Sodnomov, B. S. (Ulan-Ude). Consistency of Projectivity
of Some Uncommon Set. 101-102

Sokolov, I. G. (L'vov). The Residue of Fourier Series
for Differentiable Functions. 102
Card 31/80

AUTHOR: Rymarenko, B.A.

20-119-1-8/52

TITLE: On the Forms of Multiply-Monotone Extremal Polynomials
(O formakh ekstremal'nykh kratno-monotonnykh polinomov)

PERIODICAL: Doklady Akademii Nauk, 1958, Vol 119, Nr 1, pp 35-37 (USSR)

ABSTRACT: Let $T_n^{(h)}$ be the class of polynomials $y_n(x) = \sum_{k=0}^n p_k x^k$ which on $[-1, +1]$ are multiply-monotone of the order $(h+1)$. A polynomial $y_n^*(x)$ is called extremal on an interval if on the interval it satisfies a condition

$$(1) \quad \omega(y_n) = \sum_{k=0}^n \alpha_k p_k = A$$

and there it has the minimal variation.

Theorem: If the coefficients of the polynomials $y_n(x) \in T_n^{(h)}$ satisfy the condition (1), where $y_n(-1) = 0$ if $\alpha_{01} \neq 0$, then among these polynomials there exists a polynomial extremal on $[-1, +1]$ of the form

Card 1/2

On the Forms of Multiply-Monotone Extremal Polynomials 20-119-1-8/52

$$y_n^*(x) = \int_{-1}^x (x-z)^h (1-z)^\alpha (1+z)^\beta U_m^2(z) dz,$$

where $U_m(x)$ is a polynomial of degree $\leq m = \frac{1}{2}(n-1-h-\alpha-\beta)$,
all the roots of which lie on $[-1, +1]$. Here α and β are
either 0 or 1 (in dependence of (1)).
Two similar theorems are given for classes of polynomials
defined otherwise.
There are 3 Soviet references.

PRESENTED: October 14, 1957, by V.I. Smirnov, Academician
SUBMITTED: October 10, 1957

Card 2/2

16(1)

AUTHORS: Rymarenko, B.A., and Podol'nyy, I.P.

SOV/41-11-2-14/17

TITLE: On an Extremal Problem for Some Monotonely Increasing Functions

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 2, pp 217-220 (USSR)

ABSTRACT: Let G_{2n} be the class of functions

$$g_{2n}(x) = \int_{-\infty}^x e^{-z^2} y_{2n}(z) dz,$$

where $y_{2n}(x)$ is a polynomial of second degree being ≥ 0 on the whole real axis.

$$L_{g_{2n}} \equiv \int_{-\infty}^{\infty} e^{-z^2} y_{2n}(z) dz$$

is denoted to be the oscillation of the function $g_{2n}(x)$ on the real axis. The authors seek that function $g_{2n}^*(x) \in G_{2n}$ for which the $L_{g_{2n}^*}$ becomes minimal. Furthermore the author discusses

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On an Extremal Problem for Some Monotonely
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the form of the polynomial y_{2n} which corresponds to the extremum.
If the polynomial values $y_{2n}(\xi_k)$ are prescribed in the points ξ_k
and if the ξ_k are roots of a Hermitean polynomial, then for y_{2n}
one obtains a rigorous solution; if the ξ_k are arbitrary numbers,
then only an asymptotic solution ($n \rightarrow \infty$) is reached. In both
cases, among the extremal polynomials there are such which are
rigorous squares of another polynomial.
There are 3 references, 2 of which are Soviet, and 1 German.

SUBMITTED: June 30, 1958 (Leningrad)

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SMIRNOV, V.I., otv. red.; BUROV, V.N., red.; VORONOVSKAYA, Ye.V., red.;
LOZINSKIY, S.M., red.; NATANSON, G.I., red.; RYMARENKO, B.A.,
red.; FAYNSHMIDT, V.L., red.; SMOLYANSKIY, M.L., red.; MURASHOVA,
N.Ya., tekhn. red.

[Studies on modern problems in the constructive theory of func-
tions] Issledovaniia po sovremennym problemam konstruktivnoi
teorii funktsii; sbornik statei. Moskva, Gos.izd-vo fiziko-
matem.lit-ry, 1961. 368 p. (MIRA 15:1)
(Functional analysis)

NYMORFNO, B.2.

Monotone integral functions of finite power. Dokl. AN SSSR 155
no.1:47-49 Mr 1964. (MIRA-17:4)

1. Predstavleno akademikom S.N.Barnshiteynom.

L 14715-66 EWT(d)/T IJP(c)

ACC NR: AP6004082

SOURCE CODE: UR/0020/16/166/002/0278/0280

AUTHORS: Ibragimov, I. I.; Rymarenko, B. A.

ORG: none

TITLE: Conditionally extremal problems in the class of entire functions of finite degree

SOURCE: AN SSSR. Doklady, v. 166, no. 2, 1966, 278-280

TOPIC TAGS: complex variable, extremal function

ABSTRACT: The upper and lower bounds are found for the quantity

$$\|\varphi_\sigma\|_{L_p} = \inf_{\varphi_\sigma \in W_\sigma^{+(p)}} \|\varphi_\sigma\|_{L_p}. \quad (1)$$

where

$$\|\varphi_\sigma\|_{L_p} = \left(\int_{-\infty}^{\infty} |\varphi_\sigma(x)|^p dx \right)^{1/p} < \infty \quad (2)$$

is the norm of the class $W_\sigma^{+(p)}$ ($p \geq 1$) of real entire functions of degree σ which are nonnegative on the real axis. The existence of extremal functions in $W_\sigma^{+(p)}$ subject to linear functional restrictions is shown when there are extremal

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UDC: 517:512.6

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ACC NR: AP6004082

solutions in $W_{\sigma}^{+(1)}$ and $W_{\sigma}^{+(\infty)}$. This paper presented by Academician S. N. Bernshteyn on 7 May 1965. Orig. art. has: 19 formulas.

SUB CODE: 12/ SUBM DATE: 20Apr65/ ORIG REF: 005

BVK
Card 2/2

PAMFILOV, Vsevolod Vasil'yevich, kand. sel'khoz. nauk;
RYMARENKO, L.A., kand. tekhn. nauk, otv. red.

[Effect of impact loads on the structure and mechanical
properties of wood] Vlienie udarnykh nagruzok na struk-
turu i mekhanicheskie svoistva drevesiny. Briansk,
Brianskii tekhnologicheskii in-t, 1965. 72 p.
(MIRA 18:11)

COUNTRY : USSR
CATEGORY : Cultivated Plants. Industrial, Oleiferous, Sugar. M
ABS. JOUR. : RZhEiol., No. 23 1958, No. 104786
AUTHOR : Nymarenko, V.
INST. : ~~Research Institute of Agriculture and Forestry of the USSR Academy of Sciences~~
TITLE : Sugar Beet in Siberia.
ORIG. PUB. : S. kh. Sibiri, 1958, No. 2, 26-29
ABSTRACT : The state and the prospects of enlarging the sowings of sugar beets in individual oblast's of Siberia. Necessity of the solution of the problem of an efficient distribution of the sowings and the construction of new sugar refineries is pointed out.

CARD: 1/1

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An extremal problem for certain monotonically increasing
functions. Ukr.mat.zhur. 11 no.2:217-220 '59.
(MIRA 12:11)

(Functional analysis)

RUSHKOVSKIY, T.V.; ZUBCHENKO, P.I., nauchnyy sotr.; ZUBCHENKO, T.S.,
nauchnyy sotr.; YARMOLENKO, I.M., nauchn. sotr.; VRZHESHCH, Ye.S.,
nauchn. sotr.; ZAPOL'SKAYA, V.A., nauchn. sotr.; VIKTOROV, Ye.P.,
nauchn. sotr.; RYMARENKO, V.S., agronom; BUSLENKO, I.T., agronom;
SAZONOV, V.V., red.; LEVINA, L.G., tekhn. red.

[Sugar beet in Siberia] Sakharnaia svekla v Sibiri. Moskva, Izd-vo
M-va sel'.khoz.RSFSR, 1960. 206 p. (MIRA 15:1)

1. Glavnyy agronom po sakharnoy svekke Altayskogo krayevogo uprav-
leniya sel'skogo khozyaystva (for Rushkovskiy). 2. Biyskaya
opytno-selektсионnaya stantsiya po sakharnoy svekke (for Zubchenko,
P.I., Zubchenko, T.S., Yarmolenko, Vrzheshch, Zapol'skaya, Viktorov).
(Siberia—Sugar beets)